SFP Modules

CISCO Compatible

Small Form Pluggable Modules

Copper (10/100/1000 and 1000 Mbps) and Fiber (1.25 Gbps)

RoHS Compliant

SFP MODULES

Future-proof network equipment using copper SFPs and fiber SFPs

SFPs are compact modular transceivers. Available for copper (RJ-45) and for a variety of fiber modes, wavelengths and data rates, SFPs allow network operators to connect different interface types to the same network equipment, via an SFP port. Preserve your investment in costly networking equipment, for the price of a relatively inexpensive SFP module. More and more network equipment is being designed with SFP ports, to take advantage of the flexibility of SFP transceiver modules. Note that the selection of the SFP module must match the speed of the designated port.

Fiber SFPs (Ext. Temp.)

Features and Benefits

Robust Industrial Performance

- Extended operating temperature range of -40° to +85° C.
- Hot swappable

Future Friendly

- Available in a range of fiber types, wavelengths and transmission rates to meet almost any networking need
- Includes single-strand fiber versions
- Supports BX Standard
- Available in SC and LC connectors

Extended Diagnostics

- Powerful Digital Diagnostics Monitoring Interface (DDMI) for troubleshooting

Standards Compliant

- Compliant with SFP MSA
- Eye Safety meets Laser Class 1 compliance with IEC 60825-1
- Complies with Telecordia GR-468-CORE
- Compliant with specifications for IEEE 802.3z
- RoHS compliant

Specifications

Parameter	Range
Input Voltage	3.3V
Operating Temperature	-40° to +85° C
Storage Temperature	-40° to +85° C

Copper SFPs

Features and Benefits

Features

- Up to 1.25 Gbps bi-directional data links
- Hot-pluggable SFP footprint
- Temperature range (0° to +85° C)
- Fully metallic enclosure for low EMI
- Low power dissipation
- Compact RJ-45 connector assembly
- Detailed product information in EEPROM
- Access to physical layer IC via 2-wire serial bus
- 10/100/1000 BASE-T operation in host systems with SGMII interface

Standards Compliant

- Compliant with SFP MSA
- Compliant with IEEE Std 802.3TM-2002
- Compliant with FCC 47 CFR Part 15, Class B
- RoHS compliant

Two Versions Available:

- 10/100/1000 Mbps, SGMII interface
- 1000 Mbps only, SERDES interface

Specifications

Parameter	Range
Input Voltage	3.3V
Operating Temperature	0° to +85° C
Storage Temperature	-40° to +100° C

SFP Diagnostics Information

Standard Information Reported:

- SFP Type
- Fiber Link Length
- Wavelength
- Bit Rate
- Date Code
- Serial Number

DDMI/Extended Diagnostics Reported

- Temperature
- Voltage
- Bias Current
- TX Power
- RX Power

Fiber Optics Specifications

For each product listed below in the Ordering Information section, the DISTANCE represents an approximate fiber distance based on industry-standard fiber attenuation specifications. Actual distances will vary for each installation. For complete power budgets and information on calculating specific distances, visit www.imcnetworks.com/go/fcs or contact IMC Networks Fiber Consulting Services at 949-465-3000.

Ordering Information

Remember to select the SFP to match the port speed of the designated SFP port

SFP Modules: Copper*

PART NUMBER	PORT DESCRIPTION	CONNECTOR	DISTANCE
808-39001CC	SFP/10 - 1250, TX	RJ45	100 m
808-39010CC	SFP/1250, TX	RJ45	100 m

IE-SFP Modules: 1.25 Gbps Gigabit Ethernet (OC-12)*

PART NUMBER	PORT DESCRIPTION	FIBER	DISTANCE	POWER BUDGET
With DDMI				**(db)**
808-38201CC	IE-SFP/1250-ED, MM850	LC	220/550 m	7.5
808-38202CC	IE-SFP/1250-ED, SM1310	LC	10 km	12.5
808-38203CC	IE-SFP/1250-ED, SM1310/PLUS	LC	30 km	17
Single-Strand Fiber				
808-38227CC	IE-SFP/1250-ED, SSBX-SM1310 (1310xmt/1490rcv)	SC	10 km	12.5
808-38228CC	IE-SFP/1250-ED, SSBX-SM1490 (1490xmt/1310rcv)	SC	10 km	12.5
808-38727CC	IE-SFP/1250-ED, SSBX-SM1310 (1310xmt/1490rcv)	LC	15 km	13
808-38728CC	IE-SFP/1250-ED, SSBX-SM1490 (1490xmt/1310rcv)	LC	15 km	13

* *These are not CISCO OEM-branded SFP modules.*
SFP transceivers are available in several form factors; please verify compatibility with the manufacturer's switch or device type.
All SFPs carry a comprehensive one year warranty.

FCS FREE Fiber Consulting Services · RoHS · ISO 9001:2008 REGISTERED

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